

IN THE CLAIMS

The following is a complete listing of the claims, and replaces all earlier versions and listings.

1.-10. (Canceled).

AI ¹~~N~~ (Currently Amended) An information processing method for demultiplexing object streams from a datastream which includes a plurality of object streams each having predetermined information, scene description information for synthesizing information contained in the plurality of object streams, and a management stream including management information for managing ~~a copyright~~ intellectual property of the information, ~~playing back~~ reproducing each information, and synthesizing and outputting the reproduced information on the basis of the scene description information, comprising:

a) ~~an authentication step of authenticating at least one object stream a discriminating step, of discriminating,~~ on the basis of the management information, an intellectual property management type of information data of at least one of the plurality of object streams; and

b) a control step, of ~~controlling playback~~ effecting reproduction control of the object stream ~~in accordance with an authentication result of said authentication step,~~ wherein said control step includes a step of determining controlling, in accordance with ~~an authentication method~~ a discrimination result in said discriminating

step, whether the playback reproduction control is ~~done~~ performed before or after decoding of the object stream.

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~~12~~ (Currently Amended) A computer-readable storage medium storing a program ~~of~~ for implementing the information processing method of claim ~~11~~¹.

13.-21. (Canceled).

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~~22~~ (Currently Amended) An information processing apparatus for demultiplexing object streams from a datastream which includes a plurality of object streams each having predetermined information, scene description information for synthesizing information contained in the plurality of object streams, and a management stream including management information for managing ~~a copyright~~ intellectual property of the information, ~~playing back reproducing~~ each information, and synthesizing and outputting the reproduced information on the basis of the scene description information, comprising:

a) ~~authentication means for authenticating at least one object stream~~
discriminating means for discriminating, on the basis of the management information, an intellectual property management type of information data of at least one of the plurality of object streams; and

b) control means for ~~controlling playback~~ effecting reproduction
control of the object stream ~~in accordance with an output from said authentication means~~,

wherein said control means ~~determines~~ controls in accordance with ~~an authentication method~~ a discrimination result of said discriminating means whether the ~~playback reproduction~~ control is ~~done~~ performed before or after decoding of the object stream.

~~23~~⁶ (Currently Amended) An information processing method

comprising:

- A1
- a) an input step₁ of inputting encoded information data[[,]] and management data ~~used to protect an~~ for managing intellectual property right of the information data;
 - b) a discrimination step₁ of discriminating, ~~an authentication method~~ for the information data on the basis of the management data, an intellectual property management type of the information data; and
 - c) a control step₁ of ~~making playback~~ effecting reproduction control of the encoded information data,

wherein said control step includes a step of controlling in accordance with a discrimination result of ~~the~~ said discrimination step₁ whether the ~~playback reproduction~~ control in ~~the~~ said control step is ~~done~~ performed before or after decoding of the information data.

~~24~~⁷ (Original) A method according to claim ~~23~~⁶, wherein the information data is a datastream containing a plurality of object streams each having predetermined information.

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~~25~~ (Original) A method according to claim ⁷~~24~~, wherein the datastream complies with MPEG-4 standards.

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~~26~~ (Original) A method according to claim ⁸~~25~~, wherein the management data is IPMP data complying with the MPEG-4 standards.

AI ¹⁰
~~27~~ (Original) A method according to claim ⁶~~23~~, wherein the information data is image data.

¹¹
~~28~~ (Original) A method according to claim ⁶~~23~~, wherein the information data is audio data.

¹²
~~29~~ (Currently Amended) A method according to claim ⁶~~23~~, wherein said discrimination step includes ~~a step of discriminating if authentication is done~~ whether the intellectual property management type is a type using a digital watermark or not.

¹⁴
~~30~~ (Currently Amended) An information processing apparatus comprising:

a) input means for inputting encoded information data[[,]] and management data ~~used to protect an~~ for managing intellectual property right of the information data;

b) discrimination means for discriminating, ~~an authentication method for the information data~~ on the basis of the management data, an intellectual property management type of the information data; and

c) control means for ~~making playback~~ effecting reproduction control of the encoded information data,

wherein said control means controls, in accordance with a discrimination result of said discrimination means, whether the playback reproduction control ~~in the control step~~ is done performed before or after decoding of the information data.

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~~31~~ (Original) An apparatus according to claim ¹⁴~~30~~, wherein the information data is a datastream containing a plurality of object streams each having predetermined information.

¹⁶
~~32~~ (Original) An apparatus according to claim ¹⁵~~31~~, wherein the datastream complies with MPEG-4 standards.

¹⁷
~~33~~ (Original) An apparatus according to claim ~~32~~, wherein the management data is IPMP data complying with the MPEG-4 standards.

¹⁸
~~34~~ (Original) An apparatus according to claim ¹⁴~~30~~, wherein the information data is image data.

¹⁹
~~35~~ (Original) An apparatus according to claim ¹⁴~~30~~, wherein the information data is audio data.

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²⁰
~~36~~ (Currently Amended) An apparatus according to claim ¹⁴~~30~~, wherein said discrimination means discriminates ~~if authentication is done~~ whether the intellectual property management type is a type using a digital watermark or not.

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~~37~~ (New) A method according to claim ¹~~11~~, wherein said discriminating step includes discriminating whether the intellectual property management type is a type using a digital watermark or not.

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~~38~~ (New) A method according to claim ⁴~~22~~, wherein said discriminating means discriminates whether the intellectual property management type is a type using a digital watermark.

¹³
~~39~~ (New) A computer-readable storage medium storing a program for implementing the information processing method of claim ⁶~~23~~.
